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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/614,073	07/02/2003	Hardayal Singh Gill	HIT1P018/HSJ9-2003-0104US 6372	
28875	7590 04/19/2006	EXAMINER		
Zilka-Kotab, PC P.O. BOX 721120 SAN JOSE, CA 95172-1120			EVANS, JEFFERSON A	
			ART UNIT	PAPER NUMBER
			2627	

DATE MAILED: 04/19/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/614,073	GILL, HARDAYAL SINGH			
Office Action Summary	Examiner	Art Unit			
	Jefferson A. Evans	2627			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period w. - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATI 36(a). In no event, however, may a reply be fill apply and will expire SIX (6) MONTHS for cause the application to become ABANDO	ON. e timely filed rom the mailing date of this communication. DNED (35 U.S.C. § 133).			
Status					
Responsive to communication(s) filed on 2a) ☐ This action is FINAL. 2b) ☐ This 3) ☐ Since this application is in condition for allowan closed in accordance with the practice under E	action is non-final.				
Disposition of Claims					
4) ⊠ Claim(s) <u>1-22</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) <u>1,3,5,8-11,13,15 and 18-22</u> is/are reje 7) ⊠ Claim(s) <u>2,4,6,7,12,14,16 and 17</u> is/are objecte 8) □ Claim(s) are subject to restriction and/or	vn from consideration. cted. ed to.				
Application Papers					
9) The specification is objected to by the Examiner.					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
	anniner. Note the attached On	Ce Action of form F10-132.			
Priority under 35 U.S.C. § 119	·	() ()			
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. Certified copies of the priority documents have been received in Application No Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summa Paper No(s)/Mail 5) Notice of Informa 6) Other:				

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Claims 1 to 22 are pending.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1, 3, 5, 8-11, 13, 15, and 18-22 are rejected under 35 U.S.C. 102(e) as being anticipated by Hasegawa et al (U.S. 2002/0191348). Hasegawa discloses (figure 1) a magnetic head, comprising: upper and lower antiparallel (AP) pinned layer structures (22,26) each having at least two pinned layers (51,53) having magnetic moments that are self-pinned antiparallel to each other; and a free layer structure (24) spaced apart from and between the AP pinned layer structures, the free layer structure comprising: a first free layer (54) having a magnetic moment; a second free layer (56) having a magnetic moment pinned antiparallel to the magnetic moment of the first free layer, and a third free layer having a magnetic moment pinned antiparallel to the magnetic moment of the second free layer. All three layers of the free layer may have a thickness of less than 100 Angstroms (see paragraph 0110). Hard bias layers (31) are adjacent opposite ends of the free layer structure. A nonmagnetic Cu spacer layer (23) is formed between the pinned and free layer structures.

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Allowable Subject Matter

- 3. Claims 2, 4, 6, 7, 12, 14, 16, and 17 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jefferson A. Evans whose telephone number is 571-272-7574. The examiner can normally be reached on Monday to Friday, 9:00am to 5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hoa Thi Nguyen can be reached on 571-272-7579. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

April 16, 2006

Jefferson A. Evans Primary Examiner Art Unit 2627

JEFFERSON EVANS
PRIMARY EXAMINER